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ARES ON MED SAMES OF WARRING

TO ATL TO WHOM THESE PRESENTS SHALL COME;

Pioneer Hi-Bred International, Inc.

MICCOS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANF UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF EIGHTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT RIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'9352'

In Testimonn Thereof, I have hereunto set my hand and caused the seal of the Hourt Taristy Frotestion Office to be affixed at the City of Washington, D.C. this thirty-first day of March in the year of our Lord one thousand nine hundred and ninety-eight.

mandalla

Secretary of Agriculture

Attest:

Thomas a Sal

Acting Commissioner Plant Variety Protection Office Agricultural Marketing Service

REPRODUCE LOCALLY. Include form number and date on	all reproductions		FORM ADDROVED ON THE STATE OF
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE		The following statements are ma	FORM APPROVED - OMB NO. 0581-0 ade in accordance with the Privacy Act
SCIENCE DIVISION - PLANT VARIETY PROTECTION (Application is required in order	to determine if a plant variety protect
APPLICATION FOR PLANT VARIETY PROTECTIO	N CERTIFICATE	certificate is to be issued (7 U.S. until certificate is issued (7 U.S.	.C. 2421). Information is held confiden
(Instructions and information collection burden state) 1. NAME OF APPLICANT(S) (es it is to appear on the Certificate)	ment an reverse)	2. TEMPORARY DESIGNATION OR	
·		EXPERIMENTAL NUMBER	3. VARIETY NAME
Pioneer Hi-Bred International, Inc			9352
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Co.	untral	E TEI Phillips	
700 Capital Square		5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY
400 Locust St.	•	515/270-3582	9600063
Des Moines, IA 50309		8. FAX (include area code)	F DATE
		515/253-2288	1
		11.37 & 3.1-2.200	NUV. 22 1945
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Bots	nical)	O PRING AND EXAMINATION FEE
Glycine Max	Leguminos	sae	: 12450 22
9. CROP KIND NAME (Common name)			E Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
			•
Soybean			R A/OV 22 /595
o. If the applicant named is not a "person", give form of organize Corporation	ATION (corporation, partners	hip, association, etc.) (Common name)	E CENTRACKTOR FEE:
1. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	F DATE
Iowa		1926	E DATE
3. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SE	RVE IN THIS APPLICATION		14. TELEPHONE (include area code)
John Grace	Mike Roth (515/270-3582
7300 NW 62nd Ave.	700 Capital		J1J/2/0-3362
PO Box 1004	400 Locust	St.	15. FAX finclude area code)
Johnston TA 50131-1004			10. Troc pricione area code/
Johnston, IA 50131-1004	Des Moines,		515/253-2288
6. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow)	Des Moines,		
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Exhibit A: Origin and Breeding History

Breeding History of 9352 Soybean

Pioneer soybean variety 9352 evolved from a cross of Pioneer variety 9341 x Pioneer Variety 9273. It is an F4 derived variety which was advanced to the F4 generation by modified single seed descent..

- The cross Pioneer variety 9341 x Pioneer variety 9273 was made in the fall greenhouse at the Pioneer Hi-Bred Int'l, Inc. soybean breeding station at St. Joseph, IL. It was assigned the cross number 9472.
- The population 9472 was cycled through the F4 generation in the Hawaii nursery. Single plants were pulled and returned to the Pioneer Hi-Bred Int'l, Inc. soybean research station at Napoleon, OH.
- 1989 F5 plant selections were grown in a short row yield test at Napoleon, OH. The plant selection to become 9352 was assigned the experimental number 9472N021.
- Pioneer experimental variety 9472N021 was grown in the NPC305 yield test at three locations and was designated as entry number 30.
- Pioneer experimental variety 94742N021 was grown in the NPA3B400 yield test as entry number 14. It was assigned the experimental number W9472N021.
- 1992 W9472N021 was grown in the NPA3L000 wide area yield test .
- W9472N021 was tested in the NPA3L000 wide area yield test. Progeny rows were grown at Napoleon, OH for purification. Selected rows were bulked and sent to Chile for winter increase. W9472N021 was assigned the experimental number XB36B.
- XB36B was tested in the NPA3E00 wide area yield test. Based upon yield performance was advanced and assigned the commercial number 9352. Parent seed produced 8850 bushels of pure seed.
 - 9352 has undergone four years of extensive purification and testing, and has been observed by the breeders to be uniform and stable for all plant traits from generation to generation with no evidence of variants.

Exhibit B: Novelty Statement

Variety 9352 is most similar to Variety 9341. However, 9352 is significantly later in maturity than 9341. (Table 1) $\,$

EXHIBIT *(Soybean*

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION VARIETY NAME
Pioneer Hi-Bred International, Inc.	9352
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code 700 Capital Square 400 Locust Street Des Moines, IA 50309	PVPO NUMBER
	9600063
- you will be tower than the number of boxes provided.	ety in the features described below. When the number of significant digi- place a zero in the first box when number is 9 or less (e.g., 0 9). ate soybean variety description. Other characters should be described
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	T 2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2) 4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)
★ 2. SEED COAT COLOR: (Mature Seed)	
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)	
1 = Duil ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy'	; 'Gasoy 17')
4. SEED SIZE: (Mature Seed)	
1 6 Grams per 100 seeds	
5. HILUM COLOR: (Mature Seed)	
3 1 = Buff 2 = Yellow 3 = Brown 4 =	Gray 5 = Imperfect Black 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)	
1 = Yellow 2 = Green	
7. SEED PROTEIN PEROXIDASE ACTIVITY:	
2 1 = Low 2 = High	
8. SEED PROTEIN ELECTROPHORETIC BAND:	
1 = Type A (SP1 ⁸) 2 = Type B (SP1 ^b)	
9. HYPOCOTYL COLOR: 1 = Green only ('Evans'; 'Davis') 2 = Green with browning as Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Col	onze band below cotyledons ('Woodworth'; 'Tracy') ker Hampton 266A')
10. LEAFLET SHAPE:	
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)

11. LE	AFLET SIZE:	1.		70000	_0
[2	1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gaso') 3 = Large ('Crawford'; 'Tracy')	oy 17')			
12. LF	AF COLOR:	110	RECEIVE	=0	
2	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79' 3 = Dark Green ('Gnome'; 'Tracy')		DA-AMS- NOV 22		
# 13. FL	OWER COLOR: 1 = White 2 = Purple 3 = White with purple throat				
★ 14. PO	1 = Tan 2 = Brown 3 = Black				-
★ 15. PLA	NT PUBESCENCE COLOR: 1 = Gray 2 = Brown (Tawny)				-
16. PLA	NT TYPES: 1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Brax') 3 = Bushy ('Gnome'; 'Govan')	ton")			
3 18. MAT	1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican') URITY GROUP: 1 = 000	7=1	IV 8=	· V	-
BAC	ASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) TERIAL DISEASES:				-
* 1	Bacterial Pustule (Xanthomonas phaseoli var. sojensis) Bacterial Blight (Pseudomonas glycinea)		. •		
FUNG	Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines)				٠.
* []	Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race	5	Other (Specify)(((* } '	
0 0 * 1	Target Spot (Corynespora cassiicola) Downy Mildew (Peronospora trifoliorum var. manshurica) Powdery Mildew (Microsphaera diffusa) Brown Stem Rot (Cephalosporium gregatum) Stem Canker (Diaporthe phaseolorum var. caulivora)				

19.	DISEA	ISE REACTI	ON: (Enter 0 = Not	Tested; $1 = Susceptible; 2$	= Resistant) (C	ontinued)		······································
	FUN	GAL DISEA	SES: (Continued)					
*	1	Pod and St	tem Blight <i>(Diaporthe</i>	phaseolorum var; sojae)				
	0	Purple See	d Stain <i>(Cercospora k</i>	ikuchii)				
		Rhizoctoni	ia Root Rot <i>(Rhizoct</i>	onia solani)				
		Phytophthe	ora Rot <i>(Phytophtho</i>	ra megasperma var. sojae)				
*	1	Race 1	1 Race 2	1 Race 3 1	Race 4	I Race 5	0 Race 6	1 Race 7
	1	Race 8	1 Race 9	Other (Specify)		T	······································	
	VIRA	AL DISEASE	s:					
	1	Bud Blight	(Tobacco Ringspot V	'irus)				
	1	Yellow Mos	aic (Bean Yellow Mo	saic Virus)				
*	1	Cowpea Mo	saic (Cowpea Chloro	tic Virus)				
	1	Pod Mottle	(Bean Pod Mottle Vi	rus)				
*	1	Seed Mottle	(Soybean Mosaic Vi	rus)				
	NEM	ATODE DISE	ASES:					
		Soybean Cys	st Nematode (Hetero	dera glycines)				
*		Race 1	Race 2	1 Race 3	Race 4	Other (Spe	cify)	
	0	Lance Nema	tode (Hopiolaimus C	olombus)				٠ - المهيد
*	0	Southern Ro	oot Knot Nematode (Meloidogyne incognita)				
*	0	Northern Ro	ot Knot Nematode (Meloidogyne Hapla)				
	0	Peanut Root	Knot Nematode (Me	loidogyne arenaria)				
		Reniform Ne	matode (Rotylenchu	lus reniformis)				
	\Box	OTHER DIS	EASE NOT ON FOR	M (Specify):				
						·		T. 17.
		OGICAL RE	SPONSES: (Enter 0	= Not Tested; 1 = Suscep	otible; 2 = Resist	ant)		
*		Iron Chiorosi	s on Calcareous Soil					
		Other <i>(Specif</i>	y/					
21. 18	ISECT I	REACTION:	(Enter 0 = Not Test	od; 1 = Susceptible; 2 = Re	esistant)			
	<u>o</u> ,	Mexican Bean	Beetle (Epilachna va	privestis) 2 %			en e	
	0 ,	Potato Leaf H	lopper <i>(Empoasca fai</i>	bael			•	
	0 0	Other (Specify	y)					
22. IN	DICAT	E WHICH VA	RIETY MOST CLOS	SELY RESEMBLES THA	T SUBMITTED			****
	CHARA		1	OF VARIETY	CHARA		NAME OF	VARIETY
Pla	nt Shap	e	934	1	Seed Coat	Luster	9273	
Lea	f Shape		934	1	Seed Size		9273	
Lea	f Color		934	1	Seed Shap	e	9341	
Lea	f Size		934	1	Seedling P	gmentation	9341	
					.			

VARIETY	NO. OF DAYS	PLANT LODGING	CM PLANT	LEAFL	ET SIZE	SEED COM	NTENT	SEED SIZE G/100	9600(NO. SEEDS
	MATURITY	SCORE	HEIGHT	CM Width <	CM Length	% Protein	% Oil	SEEDS	POD
9352 Submitted	129.8	1.7	92.3	5.80	9.24	41.4	RE(EIVED Magpypo	3
9341 Name of imilar Variety	128.7	1.8	93.3	5.67	9,57			2214-4:44	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

Pioneer HI-Bred Int'l Inc.	er H-B	red Int	2	•		_			
PVP ⊿	\pplicc	ation 93	PVP Application 9352 Soybean	ur					
Table	1. T-te	est con	Table 1. T-test comparison of 9352 ver	f 9352 versus	sus 9341 for days to maturity	days to r	naturity.		
Data Days	was to	ken or turlty w	n plots app as defined	proximately to	en feet w	ide by fi	Data was taken on plots approximately ten feet wide by fifteen feet long. Days to maturity was defined as the number of days from planting to 05%.		
browi	spod L	brown pods in the plot.	plot.						
YEAR	20	REP	9341 (X1) 9352 (X		2) X1-X2 (X1	(X1-X2)²	Ave 9341 =	131,2 days	
			days to maturit	o maturity	-		Ave 9352 =	133.6 days	
1994	1346A	, _	138	141	ۍ.	6	d = (Ave X1 - Ave X2)	-2.4 days	
	346A	. 4	2 136	J	ဌာ	25	II C	13 groups of individuals	
	901E		135		0	0			
	901E	. 4	133	_	-4	16			
	003A		132	_	0	0			
	003A		2 132	L	7	_	#11/		
	004A	,	135	5 139	4-	16	X (X1	Σ (X1.X2) ² - (Σ X1.X9) ² / _ν	
	004A		2 135		0	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111 (277 127 277)	
	040D				-4	91			
	31K		117	7 120	-3	6		(n) (n-1)	
	31K	. 7	2 116		-4	91			
	830A		141	142	-				
	800B		141	143	-2	4	1 113 - ((-31) ² /13)	-31) ² /13)	
1				***************************************			SE diff = 1		
		SUM	1706	5 1737	-31	113	I) N	(13) (12)	
		MEAN	131.2	133,6	-2.4 = d				
							-		
							SE diff = SQRT of	0.250	
							SE diff =	0.500	
							t = d/SE diff ==	4,765	
							ıı Ö	12	
							Prob > 1 =	0.0005 significant at less than the 1% level	an the 1% level

Exhibit D: Additional Description of Variety

In Exhibit C we have identified 9352 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle. This does not mean that we consider 9352 to be worse than other varieties of similar maturity in reaction to these challenges. Rather, we have chosen to be conservative and have identified 9352 as "susceptible".

Variety 9352 is a mid group III variety. If group III maturities are divided into tenths, the relative maturity of 9352 is 3.5.

Isozyme information for 9352:

Exhibit E: Statement of the Basis of Applicants Ownership

Variety 9352 was originated and developed by plant breeders (U.S. nationals) from whom, by agreement, Pioneer Hi-Bred Int'l, Inc. has obtained exclusive rights to 9352. No rights to 9352 are retained by plant breeders or any other party.